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Substitute for form 1449A/PTO

Complete if Known

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 7

Application Number 10/516,407  
Filing Date December 2, 2004  
First Named Inventor MOSES, Elisha  
Art Unit 2881  
Examiner Name SMITH, JOHNNIE L  
Attorney Docket Number P-7448-US

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JS	A	US-3,218,459	11-16-1965	Bens	
	B	US-3,378,684	04-16-1968	Mentink et al	
	C	US-3,657,596	04-18-1972	Goetze, et al.	
	D	US-4,037,109	07-19-1977	Hosokawa, et al.	
	E	US-4,071,766	01-31-1978	Kalman, et al.	
	F	US-4,115,689	09-19-1978	Won	
	G	US-4,308,457	12-29-1981	Reimer	
	H	US-4,448,311	05-15-1984	Houser	
	I	US-4,587,666	05-06-1986	Torrisi et al.	
	J	US-4,596,928	06-24-1986	Danilatos	
	K	US-4,609,809	09-02-1986	Yamaguchi, et al.	
	L	US-4,618,938	10-21-1986	Sandland, et al.	
	M	US-4,705,949	11-10-1987	Grimes, II, et al.	
	N	US-4,720,633	01-19-1988	Nelson	
	O	US-4,720,622	01-19-1988	Iwata, et al.	
	P	US-4,880,976	11-14-1989	Mancuso, et al.	
	Q	US-4,929,041	05-29-1990	Vahala, et al.	
	R	US-4,992,662	02-12-1991	Danilatos	
	S	US-5,097,134	03-17-1992	Kimoto, et al.	
	T	US-5,103,102	04-07-1992	Economou, et al.	
	U	US-5,122,663	06-16-1992	Chang, et al.	
	V	US-5,250,808	10-05-1993	Danilatos, et al.	
	W	US-5,323,441	06-21-1994	Torrisi, et al.	
	X	US-5,326,971	07-05-1994	Theodore, et al.	
	Y	US-5,362,964	11-08-1994	Knowles, et al.	
	Z	US-5,406,087	4-11-1995	Fujiyoshi, et al.	
	BA	US-5,412,211	05-02-1995	Knowles	
	BB	US-5,466,940	11-14-1995	Litman, et al.	
	BC	US-5,502,306	03-26-1996	Meisburger, et al.	
	BD	US-5,644,132	07-01-1997	Litman, et al.	
	BE	US-5,667,791	09-16-1997	Hersh, et al.	
	BF	US-5,789,748	08-04-1998	Liu, et al.	
JS	BG	US-5,811,803	09-22-1998	Komatsu, et al.	

Examiner Signature /Johnnie Smith/ Date Considered 01/30/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Application Number	10/516,407
				Filing Date	December 2, 2004
				First Named Inventor	MOSES, Elisha
				Art Unit	2881
				Examiner Name	SMITH, JOHNNIE L
Sheet	2	of	7	Attorney Docket Number	P-7448-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2 (if known)</sup>			
JS	BH	US-5,859,699	01-12-1999	Baer, et al.	
	BI	US-5,898,261	04-27-1999	Barker	
	BJ	US-5,945,672	08-31-1999	Knowles, et al.	
	BK	US-6,025,592	02-15-2000	Knowles, et al.	
	BL	US-6,072,178	06-06-2000	Mizuno	
	BM	US-6,114,695	09-05-2000	Todokoro, et al.	
	BN	US-6,130,434	10-10-2000	Mitchell, et al.	
JS	BO	US-6,157,446	12-05-2000	Baer, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5 (if known)</sup>			
JS	BP	WO	02/45125	06-06-2002	YEDA RESEARCH DEVELOPMENT CO. LTD.	<input type="checkbox"/>
JS	BQ	WO	02/14830	02-21-2002	YEDA RESEARCH DEVELOPMENT CO. LTD.	<input type="checkbox"/>
JS	BR	WO	03/104848	01-18-2003	QUANTOMIX, LTD	<input type="checkbox"/>
JS	BS	WO	2004/075209	02-09-2004	QUANTOMIX, LTD.	<input type="checkbox"/>
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						<input type="checkbox"/>
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				First Named Inventor	MOSES, Elisha
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				Examiner Name	SMITH, JOHNNIE L
Sheet	3	of	7	Attorney Docket Number	P-7448-US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
JS	BT	Angulo P., "Nonalcoholic Fatty Liver Disease", N. Engl J. Med, Vol. 346, No. 16, 1221-31, 2002	<input type="checkbox"/>
	BU	Ault K.A. et al. "In-Vivo Biotinylation Demonstrates that Reticulated Platelets are the Youngest Platelets in Circulation", Exp Hematology, 23, 996-1001, 1995.	<input type="checkbox"/>
	BV	Becker, R.P. and Sogard, M., "Visualization of Subsurface Structures in Cells and Tissues by Backscattered Electron Imaging", Scanning Electron Microscopy (II), 835-870, 1979.	<input type="checkbox"/>
	BW	Birks J.B., "The Theory and Practice of Scintillation Counting", Pergamon Press, 1964.	<input type="checkbox"/>
	BX	Bozza P. T. et al., "Pathways for Eosinophil Lipid Body Induction: Differing Signal Transduction in Cells from Normal and Hypereosinophilic Subjects", Journal of Leukocyte Biology, Vol. 64, 563-569, 1998.	<input type="checkbox"/>
	BY	Brocker W. and Pfefferkorn G., "Applications of the Cathodoluminescence Method in Biology and Medicine", Scanning Electron Microscopy Vol. II, 125-132, 1979.	<input type="checkbox"/>
	BZ	Burns W. A. et al., "The Clinician's View of Diagnostic Electron Microscopy", Human Pathology, 6, 467-78, 1975.	<input type="checkbox"/>
	CA	Carlen, B. and Englund, E., "Diagnostic Value of Electron Microscopy in a Case of Juvenile Neuronal Ceroid Lipofuscinosis", Ultrastructural Pathology 25, 285-288, 2001.	<input type="checkbox"/>
	CB	Davison E. & Colquhoun W., "Ultrathin Formvar Support Films for Transmission Electron Microscopy". J. Elec. Microsc. Tech. Vol. 2, 35-43, 1985.	<input type="checkbox"/>
	CC	Cook G.S. & Costretton J.W., "Foley Catheter Biofilm Formation Comparison Study in an In-Vitro Assay", unknown publication date, <a href="http://www.bacterin.com/pdf/whitepaper.pdf">http://www.bacterin.com/pdf/whitepaper.pdf</a>	<input type="checkbox"/>
	CD	de Assis E. F. et al, "Synergism Between Platelet-Activating Factor-Like Phospholipids and Peroxisome Proliferator-Activated Receptor Gamma Agonists Generated During Low Density Lipoprotein Oxidation that Induces Lipid Body Formation in Leukocytes", The Journal of Immunology, 171, 2090-2098, 2003	<input type="checkbox"/>
	CE	De Mets M. and Lagasse A., "An Investigation of Some Organic Chemicals as Cathodoluminescent Dyes using the Scanning Electron Microscope" Journal of Microscopy Vol. 94, 151-156, 1971.	
JS	CF	De Rijk Eveline P.C.T. et al, "A Fast Histochemical Staining Method to Identify Hyaline Droplets in the Rat Kidney", Toxicologic Pathology, Vol XXXI, 462-464, 2003.	

Examiner Signature	/Johnnie Smith/	Date Considered	01/30/2007
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		Attorney Docket Number	P-7448-US

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JS	CG	Dykstra M.J. et al., "Suggested Standard Operating Procedures (SOPs) for the Preparation of Electron Microscopy Samples for Toxicology/Pathology Studies in a GLP Environment", Toxicologic Pathology, Vol XXX, 735-743, 2002.	<input type="checkbox"/>
	CH	Feinerman & Crewe, "Miniature Electron Optics", Advances in Imaging and Electron Physics, Vol. 102, 187, 1998.	<input type="checkbox"/>
	CI	Fisher C. et al., "An Assessment of the Value of Electron Microscopy in Tumor Diagnosis", Journal Clinical Pathology 38, 403-408, 1985.	<input type="checkbox"/>
	CJ	Garman R. H. et al., "Method to Identify and Characterize Developmental Neurotoxicity for Human Health Risk Assessment. II: Neuropathology", Environmental Health Perspective, Vol. 109, 93-100, 2001.	
	CK	Gileadi O. et al., "Squid Sperm to Clam Eggs: Imaging Wet Samples in a Scanning Electron Microscope", Biol. Bull., 205, 177-179, 2003.	
	CL	Goldstein, et al., Scanning Electron Microscopy and X-ray Microanalysis, Plenum Press, New York, London, 1992.	
	CM	Goodpaster B. H. et al., "Skeletal Muscle Lipid Content and Insulin Resistance: Evidence for a Paradox in Endurance-Trained Athletes", The Journal of Clinical Endocrinology & Metabolism 86 (12), 5755-5761, 2001.	
	CN	Grande JP et al., "Renal Biopsy in Lupus Nephritis", Lupus 7, 611-617, 1998.	
	CO	Green E.D.H "Atmospheric Scanning Electron Microscopy" Ph. D Dissertation, Department of Electronic Engineering, Stanford University, 1992	
	CP	Griffiths "Trends in Cell Biology", V. 11 :153-154, 2001.	
	CQ	Gu Xin et al, "The Value of Electron Microscopy in the Diagnosis of IgA Nephropathy", Ultrastructural Pathology 26, 203-210, 2002	
	CR	Gyorkey F. et al., "The Usefulness of Electron Microscopy in the Diagnosis of Human Tumors", Human Pathology 6,421-441, 1975.	
	CS	Handley & Olsen, "Butvar B-98 As A Thin Support Film", Ultramicroscopy Vol. 4, 479-480, 1979.	
JS	CT	Hard G. C. et al., "Risk Assessment of d-Limonene: An Example of Male Rat-Specific Renal Tumorigens", Critical Reviews in Toxicology, 24 (3), 231-254, 1994.	
JS	CU	Harris L. G. et al., "Contrast Optimisation for Backscattered Electron Imaging of Resin Embedded Cells", Scanning Microscopy, Vol. 13, No. 1, 71-81, 1999.	

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JS	CV	Hayat, M.A., "Principles and Techniques of Electron Microscopy – Biological Applications", Fourth edition, Cambridge University Press, 2000.	
	CW	Hermann, R., Walther, P. and Müller, M., "Immunogold-labeling in Scanning Electron Microscopy", Histochem. Cell. Biol., 106, 31-39, 1996.	
	CX	Herrera G. A., "The Value of Electron Microscopy in the Diagnosis and Clinical Management of Lupus Nephritis", Ultrastructural Pathology 23, 63-77, 1999.	
	CY	Hoffman-Fezer et al., "Preclinical Evaluation of Biotin Labeling for Red Cell Survival Testing" Annals of Hematology, Vol. 74, 231-238, 1997.	
	CZ	Hollinshead M. et al., "Anti-biotin Antibodies Offer Superior Organelle-specific Labeling of Mitochondria over Avidin or Streptavidin", The Journal of Histochemistry & Cytochemistry, 45 (8), 1053-7, 1997.	
	DA	Hough P.V.C. et al., "Identification Of Biological Molecules in situ at High Resolution via the Fluorescence Excited by a Scanning Electron Beam", Proceedings of the National Academy of Sciences of the United States of America, Vol. 73, No. 2, 317-321, 1976.	
	DB	J.B. Steyn, et al., "An Efficient Spectroscopic Detection System for Cathodoluminescence Mode Scanning Electron Microscopy (SEM)", Journal of Microscopy, Vol. 107, Pt 2, July 1976, pp. 107-128.	
	DC	Kelley D. E. et al, "Dysfunction of Mitochondria in Human Skeletal Muscle in Type 2 Diabetes", Diabetes Vol. 51, 2944-2950, 2002	
	DD	Kelley D. E. et al, "Muscle Triglyceride and Insulin Resistance", Annu. Rev. Nutr. 22, 325-46, 2002	
	DE	Kirkpatrick P., "High-Throughput Screening Birds of a Feather...", Nature Reviews Drug Discovery V. 1, 330, 2002	
	DF	Kristiansen, E. and Madsen, C., "Induction of Protein Droplet (alpha-2 microglobulin) Nephropathy in Male Rats After Short-Term Dosage with 1,8-cineole and l-limonene", Toxicology Letters 80, 147-152, 1995.	
	DG	Lehning E. J. et al, "Gamma-Diketone Peripheral Neuropathy", Toxicology and Applied Pharmacology 165, 127-140, 2000.	
		Levit-Binnun N. et al, "Quantitative Detection of Protein Arrays", Anal. Chem. 75, 1436-1441, 2003	
JS	DH	LoPachin R. M. et al, "Gamma-Diketone Central Neuropathy: Quantitative Morphometric Analysis of Axons in Rat Spinal Cord White Matter Regions and Nerve Roots", Toxicology and Applied Pharmacology, 193, 29-46, 2003	
	DI	Mathews R.G., "Conditions for Imaging Emulsions in the Environment Scanning Electron Microscope", Scanning, V. 24, 75-85, 2002	

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JS	DJ	McGovern S. L. et al, "A Common Mechanism Underlying Promiscuous Inhibitors from Virtual and High-Throughput Screening", J. Med. Chem, 45, 1712-1722, 2002	
	DH	McIntosh R. J., "Electron Microscopy of Cells: A New Beginning for a New Century", The Journal of Cell Biology, Vol. 153, No. 6, F25-F32, 2001.	
	DI	McKinney W. and Hough Paul V.C., "A New Detector System for Cathodoluminescence Microscopy", Scanning Electron Microscopy, Vol. I, 251-256, 1977.	
	DJ	Mittler, M.A., Walters, B.C. and Stopa, E.G., "Observer Reliability in Histological Grading of Astrocytoma Stereotactic Biopsies", J. Neurosurg 85,1091-1094, 1996.	
	DK	Moriki T. et al., "Activation of Preformed EGF Receptor Dimers by Ligand-induced Rotation of the Transmembrane Domain", J. Mol. Biol. 311, 1011-1026, 2001.	
	DL	Muskhelishvili L. et al, "An Immunohistochemical Label to Facilitate Counting of Ovarian Follicles", Toxicologic Pathology, Vol XXX, 400-402, 2002.	
	DM	Nyska A. et al, "Biocompatibility of the Ex-PRESS Miniature Glaucoma Drainage Implant", Journal of Glaucoma, Vol XII, 275-280, 2003.	
	DN	Pacheco P. et al, "Lipopolysaccharide-Induced Leukocyte Lipid Body Formation In Vivo: Innate Immunity Elicited Intracellular Loci Involved in Eicosanoid Metabolism", The Journal of Immunology, 169, 6498-6506, 2002	
	DO	Petersen K. F. et al, "Mitochondrial Dysfunction in the Elderly: Possible Role in Insulin Resistance", Science, Vol. 300, 1140-1142, 2003	
	DP	Prescott-Mathews J. S., et al., "Methyl tert-Butyl Ether Causes alpha2u-Globulin Nephropathy and Enhanced Renal Cell Proliferation in Male Fischer-344 Rats", Toxicology and Applied Pharmacology, Vol. 143, 301-314, 1997.	
	DQ	Robinson V.N.E., "The Examination of Hydrated Specimens in Electron Microscopes", Analysis of organic and biological surfaces, P. Echlin, 191-207, John Wiley and Sons, New York, 1984.	
	DR	Sedar, A.W., Silver, M.J. and Ingerman-Wojenski, C.M., "Backscattered Electron Imaging to Visualize Arterial Endothelial Detachment in the Scanning Electron Microscope", Scanning Electron Microscopy, Vol II, 969-74, 1983.	
	DS	Shulman G. I., "Cellular Mechanisms of Insulin Resistance", The Journal of Clinical Investigation, Vol. 106, No. 2, 171-176, 2000.	
↓	DT	Singer I. I. et al. "CCR5, CXCR4 and CD4 Are Clustered and Closely Apposed on Microvilli of Human Macrophages and T Cells", Journal of Virology, Vol. 75, No. 8, 3779-3790, 2001.	
JS	DU	Spargo, B.H., "Practical use of Electron Microscopy for the Diagnosis of Glomerular Disease", Human Pathology Vol. 6,405-420, 1975.	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/516,407
				Filing Date	December 2, 2004
				First Named Inventor	MOSES, Elisha
				Art Unit	2881
				Examiner Name	SMITH, JOHNNIE L
Sheet	7	of	7	Attorney Docket Number	P-7448-US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
JS	DV	Swift & Brown, J. Phys. E: Sci. Instrum. 3, 924-926, 1970.	
	DW	Thornley, "New Applications of the Scanning Electron Microscope", Ph. D Dissertation 3886, Corpus Christi College, Cambridge, 1960	
	DX	Tucker, J.A., "The Continuing Value of Electron Microscopy in Surgical Pathology", Ultrastructural Pathology, Vol. 24,383-9, 2000.	
	DY	Weisberg S. P et al, "Obesity is Associated with Macrophage Accumulation in Adipose Tissue", Journal of Clinical Investigation, Vol. 112 No. 12, 1796-1808, 2003	
	DZ	Wellen K. E. et al, "Obesity-Induced Inflammatory Changes in Adipose Tissue", The Journal of Clinical Investigation, Vol. 112 No. 12, 1785-88, 2003	
	EA	Weller P.F. et al., "Cytoplasmic Lipid Bodies of Neutrophils: Formation Induced by cis-Unsaturated Fatty Acids and Mediated by Protein Kinase C", The Journal of Cell Biology, Vol. 113, No. 1, 137-146, 1991.	
↓	EB	Xu H. et al "Chronic Inflammation in Fat Plays a Crucial Role in the Development of Obesity-Related Insulin Resistance", Journal of Clinical Investigation, Vol. 112 No. 12, 1821-30, 2003	
JS	EC	Schlessinger J., "Ligand-Induced, Receptor-Mediated Dimerization and Activation of EGF Receptor", Cell Vol. 110, 669-672, 2002	

Examiner Signature	/Johnnie Smith/	Date Considered	01/30/2007
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